



**DEPARTMENT OF THE NAVY**  
NAVAL SUPPORT ACTIVITY WASHINGTON  
1411 PARSONS AVENUE ST STE. 303  
WASHINGTON NAVY YARD DC 20374-5003

5090  
Ser N4/ *560*  
December 9, 2016

Ms. Karen Crumlish  
Chief, Drinking Water Branch (3WP21)  
EPA Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

Dear Karen Crumlish:

SUBJECT: REVISED TOTAL COLIFORM REPORT, U.S. NAVAL OBSERVATORY

Enclosed are the Revised Total Coliform and Nitrate Reports for the monitoring period November 2016 for the U.S. Naval Observatory.

If you have any questions or require further information, please contact Mr. Dane Bowker, Public Works Department Drinking Water Program Manager at 202-433-4191 or email: [dane.bowker@navy.mil](mailto:dane.bowker@navy.mil).

Sincerely,

A handwritten signature in black ink, reading "Durant S. Graves".

DURANT S. GRAVES  
Installation Environmental Program Director  
By direction of the Commanding Officer

- Enclosures:
1. Total Coliform Report
  2. Certificate of Analysis for RTCR
  3. Nitrate Report
  4. Certificate of Analysis for Nitrates

Naval Observatory

PWS: DC0000005

November Sampling Report

First Half

Sample Date:11/2/2016

Total Samples:1

Total Samples Negative:1

Total Samples Positive:0

Sample Number	Sample Point Identifier	Sample Point Name	Collector Name	Compliance Indicator	Sample Collection		Lab Received	Lab Analysis		Sample Comments	Chlorine Residual	pH	Temp (C)	Total Coliform Analysis	E. Coliform Analysis
					Date	Time	Date	Date	Time		Value (mg/L)			Result	Result
16K0313-01	NSF-OBSY-59	BLDG 59	Guyan Kularthne	Y	11/2/2016	1257	11/2/2016	11/3/2016	1157		2.80	7.99	20.8	N	N



## Microbac Laboratories, Inc.

Baltimore Division  
2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800  
Fax: 410-633-6553  
[www.microbac.com](http://www.microbac.com)

### COVER LETTER

Kosala De Silva  
Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045  
RE: USNO

November 03, 2016  
Report No.: 16K0313

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 11/02/2016 15:00.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Certifications/Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

11/3/2016

Final report reviewed by:

Curtis B. Read/Project Manager

Report issue date

*All samples received in proper condition and results conform to ISO 17025 and TNI NELAC standards unless otherwise noted.*

*If we have not met or exceeded your expectations, please contact Curtis B. Read/Project Manager at 410-633-1800. You may also contact Trevor Boyce, President at [trevor.boyce@microbac.com](mailto:trevor.boyce@microbac.com)*



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### CERTIFICATE OF ANALYSIS

Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: USNO  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K0313  
Reported: 11/03/2016 12:48

### SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
NSF-OBSY-59	16K0313-01	Drinking Water	Grab	11/02/2016 12:57	11/02/2016 15:00

Microbac Laboratories, Inc. - Baltimore

Curtis B. Read, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Original Report

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### CERTIFICATE OF ANALYSIS

Inspection Experts, Inc  
 9220 Rumsey Rd., Bay # 5  
 Columbia, MD 21045

Project: USNO  
 Project Number: 15-0011-214  
 Project Manager: Kosala De Silva

Report: 16K0313  
 Reported: 11/03/2016 12:48

#### NSF-OBSY-59

**16K0313-01 (Drinking Water) Sampled: 11/02/2016 12:57; Type: Grab**

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
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#### Field Analysis

<b>Analyst:</b>	0697GK	<b>pH:</b>	7.99	<b>Flow (g/min):</b>	NA	<b>Res. Cl (mg/L):</b>	2.8	<b>GW Elev.(ft):</b>	NA
<b>Temp. (C):</b>	20.8	<b>Turb. (ntu):</b>	NA	<b>D.O. (mg/L):</b>	NA	<b>Cond. (umhos/cm):</b>	NA	<b>LEL (%):</b>	NA
<b>ORP (mV):</b>	NA	<b>Volume (L):</b>	NA	<b>Flow (g/day):</b>	NA	<b>Salinity (ppt):</b>	NA	<b>Ambient Temp. (°C):</b>	NA

#### Microbac Laboratories, Inc. - Baltimore

#### Microbiology

<b>Coliform, Total</b>	<b>Negative</b>	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert
<b>E. Coli</b>	<b>Negative</b>	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

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Curtis B. Read, Project Manager

**Original Report**

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**CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc  
 9220 Rumsey Rd., Bay # 5  
 Columbia, MD 21045

 Project: USNO  
 Project Number: 15-0011-214  
 Project Manager: Kosala De Silva

 Report: 16K0313  
 Reported: 11/03/2016 12:48

**Project Requested Certification(s):**

 A2LA (Environmental)  
 State of Maryland (Drinking Water)

**Analyte Certification Exception Summary**

No certification exceptions

All analysis performed were analyzed under the required certification unless otherwise noted in the above summary.

**Certification List**

*Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.*

Code	Description	Certification Number	Expires
<b>Microbac Laboratories, Inc. - Baltimore</b>			
A2LA1	A2LA (Biology)	410.02	04/30/2017
A2LA2	A2LA (Environmental)	410.01	04/30/2017
VA-B	Commonwealth of Virginia (NELAC) - Baltimore	460285	03/14/2017
CPSC	CPSC Testing of Childrens Products and Jewelry	1115	04/30/2017
Pb	Environmental Lead (ELLAP)	410.01	04/30/2017
MD	State of Maryland (Drinking Water)	109	06/30/2017
WV	West Virginia	054	08/31/2017
<b>Microbac Laboratories, Inc. - Richmond</b>			
VA-R	Commonwealth of Virginia (NELAC) - Richmond	460022	06/14/2017

Microbac Laboratories, Inc. - Baltimore

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Curtis B. Read, Project Manager

**Original Report**

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Inspection Experts, Inc  
9220 Rumsey Rd., Bay # 5  
Columbia, MD 21045

Project: USNO  
Project Number: 15-0011-214  
Project Manager: Kosala De Silva

Report: 16K0313  
Reported: 11/03/2016 12:48

### Qualifiers/Notes and Definitions

#### *General Definitions:*

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



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### Cooler Receipt Log

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<b>Cooler ID:</b>	Default Cooler	<b>Cooler Temp:</b>	0.90°C	<b>Work Order:</b>	16K0313
Custody Seals Intact:	Yes	COC/Containers Agree:			Yes
Containers Intact:	Yes	Correct Preservation:			Yes
Received On Ice:	Yes	Correct Number of Containers Received:			Yes
Radiation Scan Acceptable:	Yes	Sufficient Sample Volume for Testing:			Yes
COC Present:	Yes	Samples Received in Proper Condition:			Yes

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**Comments:**


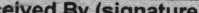


### **Chain of Custody Record**

<b>Customer</b> Name: Inspection Experts Inc. Address: 9220 Rumsey Road, Bay #5 Columbia, MD 21045		<b>Project Information</b> Name: USNO Number: 15-0011-214 PO:		<b>Turn Around Time</b> <input checked="" type="radio"/> Standard <input type="radio"/> RUSH* Needed By:		<b>Compliance</b> <input type="radio"/> Yes <input type="radio"/> No Agency:	
<b>Contact</b> Name: Kosala De Silva Number: 410-715-3939 Email: kosala@ieinc.net		<b>Sampler</b> Name: Gayan Kularathne Phone: 240-252-0841 Cert ID:*** 0697GK		<b>Report Options</b> <input type="checkbox"/> EDD <input checked="" type="checkbox"/> Email kosala@ieinc.net <input type="checkbox"/> Fax		<b>QC Pacakge</b> <input checked="" type="radio"/> Level I <input type="radio"/> Level II** <input type="radio"/> Level III**	

[illegible]

16K0313

Possible Hazard Identification		<input type="checkbox"/> Hazardous <input type="checkbox"/> Non-Hazardous		<input type="checkbox"/> Radioactive		Sample Disposition <input checked="" type="checkbox"/> Dispose as appropriate <input type="checkbox"/> Return <input type="checkbox"/> Archive	
Number of Containers:		Sampled By (signature)	Printed Name/Affiliation	Date/Time	Received By (signature)	Printed Name/Affiliation	
Cooler Number:			Gayan Kulkarni	11/02/16/500		Arun Kulkarni	
Temp upon receipt(°C):	0.9°C	Relinquished By (signature)	Printed Name/Affiliation	Date/Time	Received By (signature)	Printed Name/Affiliation	
Sample Received on Ice or Refrigerated from Client: Yes / No		Relinquished By (signature)	Printed Name/Affiliation	Date/Time	Received for Lab By (signature)	Printed Name/Affiliation	
Radiation Scan Acceptable Yes / No							

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WHITE - ORIGINAL LAB	YELLOW - RECEIPT
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rev.121112

**Surcharge May Apply to add'l QC Packages**

\*\*\* Sampler certification ID needed for some agencies.

Matrix Types: Air(A), Childrens Product(CP), Food(F), Paint(P), Soil/Solid (S), Oil(O), Wipe(WI), Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

### Instructions for completing the Chain of Custody Record

## Nitrate/Nitrite Summary Report

Nitrate/Nitrite Report Summary November 2016

Location: Naval Observatory

PWS ID: DC0000005

Number of Nitrate Samples Required: 0

Number of Nitrate Samples Taken: 0

Number of Repeat Samples Required: 0

Number of Nitrite Samples Required: 2

Number of Nitrite Samples Taken: 2

Number of Repeat Samples Taken: 0

Building Number	Sample Location	Justification	Total Nitrates mg/l	Total Nitrites mg/l
NSF-OBSY 2	1 <sup>st</sup> Floor Kitchen Sink	Entry point to distribution system	0.72	N/A
NSF-OBSY 19	1 <sup>st</sup> Floor Kitchen Sink	Entry point to distribution system	0.74	N/A



November 17, 2016

Mr. Kosala DeSilva  
Inspection Experts, Inc.  
8711 Arrowtip Lane  
Lewis Center, OH 43035

## Certificate of Analysis

Project Name: <b>USNO</b>	Workorder: <b>2186504</b>
Purchase Order:	Workorder ID: <b>USNO</b>

Dear Mr. DeSilva:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, November 2, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Debra J. Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. George Tsamoulales

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*



Ms. Debra J. Musser  
Project Coordinator

### ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay  
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

### SAMPLE SUMMARY

Workorder: 2186504 USNO

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2186504001	NSF-OBSY 2	Drinking Water	11/2/2016 13:12	11/2/2016 22:30	Collected by Client
2186504002	NSF-OBSY 19	Drinking Water	11/2/2016 13:37	11/2/2016 22:30	Collected by Client

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## SAMPLE SUMMARY

Workorder: 2186504 USNO

### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

### Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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**ANALYTICAL RESULTS**

Workorder: 2186504 USNO

Lab ID: **2186504001**  
Sample ID: **NSF-OBSY 2**Date Collected: 11/2/2016 13:12 Matrix: Drinking Water  
Date Received: 11/2/2016 22:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
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**WET CHEMISTRY**

Nitrate-N	0.72		mg/L	0.20	EPA 300.0			11/3/16 10:55	BSL	A
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Ms. Debra J. Musser  
Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay  
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**ANALYTICAL RESULTS**

Workorder: 2186504 USNO

Lab ID: **2186504002**  
Sample ID: **NSF-OBSY 19**Date Collected: 11/2/2016 13:37 Matrix: Drinking Water  
Date Received: 11/2/2016 22:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
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**WET CHEMISTRY**

Nitrate-N	0.74		mg/L	0.20	EPA 300.0			11/3/16 11:08	BSL	A
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Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay  
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